Cloud based Learning
Lennart Andersson
Adjunct Associate Professor
Pratt Institute

- Construction Documents
- BIM for CM
- BIM for FM
Cloud Based Learning for Community Collaboration
Key Goals

Enhance collaboration
Bring reality to the classroom
Stakeholder engagement for upfront feedback loops
Investigate temporary vs permanent construction
Operational understanding
Environmental Footprint
Participants

CM Undergraduate, FM Graduate
NY DDC - Town & Gown
Mayor’s office of homeless services
Marvel Architects
Revit file linkage

Master Building Model
Projects exercises focus

Fall 2020

Construction Management phase

Spring 2021

Digital Campus – Campus as laboratory for AECO
Markups

Marking up, sharing and tracking
Issue Tracking

Assigning, tracking issues.
Submittals

A document submitted by the contractor to be reviewed and approved by design consultant. The CM manages the distribution and tracking of the status.
Phasing

Plan & Visualize phasing within the BIM 360 platform.
Changes

Automatic Visualization of changes from the different versions.
Assets

BIM driven Asset Register for seamless integration of supporting documentation for Facilities Management
Tools

- Launchpad
  - Revit
  - Naviswork
  - Recap

- BIM 360
  - Docs
  - Design
  - Build
  - Asset
Kent Avenue Site

Reality Captured Site
Kent Avenue Site

Minimal impact on site

Kit of Parts

Assembly not construction
Kent Avenue Site

Modules
Sustainable Practices

Community Garden
Energy Generation
Biofilic Facades
Exercises

Site Logistics
Quantification/ Cost Estimation
Sequencing
Coordination
Operations Focus
Means and Methods

Sequencing
Scheduling
Virtual Mockups
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DIGITAL CAMPUS TWIN

1,000,000 SF BROOKLYN CAMPUS PARK CAPTURED IN ONE DAY
DIGITAL BUILDING TWIN

CURRENT CONDITIONS
DRAWINGS
DIGITAL BUILDING TWIN

MODEL
Outcomes

Discussion about building in NYC

Community

Collaboration

Contracts/ Specifications